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Three flights were made during this period. Two slipper ferry missions and a repeat of the 71M' mission. Preliminary results indicate the cooler fuel oil heat exchanger decrease the manufactured fuel from 5% to 3%. More detailed information on the recent series of range missions will be reported as soon as possible.

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NEW THEVIEW DATE:

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DATE: 2/11/6/ REVIEWED 097169

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342	3 fl	ights remaini	.ng	2		91 f	lig	h ts
<u> </u>								

13. COMMENTS

Two flights with slipper tanks were made during this period. They were level cruise missions at 72M and 70M.

A J-57 fuel oil heat exchanger has been installed and shows a decrease in manufactured fuel. Final evaluation of this change should be made next period.

			SECRE				* -
25X1A	Approved P PROJECT	Release 2001 PROGRESS REPO	/09/05 : C	IA-RDP81B00	R 000	10024006 27 Nov	THRU 3 Dec
1. REPORTING AGENC			2	. NAME OF CONTA	2	5X1A	3. TELEPHONÉ NO. 34361
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12.	A Pay 15		OPERATIO				
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13. COMMENTS

The inspection has been completed with no major problems encountered. Range test flights will be continued next period.

Five more range flights will complete the J-75 development program. The airplane is programmed to remain at EAFB as a test vehicle. Although no large specific tests are planned at this time, many small items keep coming up. As these items come up they will be reported as separate tests.

Approved Felease 2001/09/95CRCTA-RDP81B008 R000100240002-5

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13. COMMENTS

Engine operation is satisfactory at this time. A series of flights are being made to obtain information with slipper tanks. Results thus far show that overall range is increased but good autopilot performance is assential.

Test airplane down for 100 hour inspection.

For Release 2001/0 () A-RDP8 0880R000100240002-5

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4. PROGRAM TITLE		3,						
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Engine operation is satisfactory at this time. A series of flights are being made to obtain range information with slipper tanks. Results thus far show that overall range is increased but good autopilot performance is essential.

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	ROGRAM	6.			TESTING		
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		ft camera suppo	HO LLOCAR			•0002 00	1000) Literios
for the	UZA.	25X1D		25X1D			

c. This was a difference in photographic results of in the U2C as compared to average in the U2A.

d. With the new shock mounts installed in the U2C photographic results averaged 25X1D

e. No further vibration ground and flight tests are scheduled pending approval of Hycon Engineering Study Proposal, HYB-30, to vibration isolate and improve mounting of the "B" camera mirror.

f. A complete engineering report* on the J-75 equipped U2C vibration isolation study has been forwarded to headquarters via 25X1A

*Engineering Report, Vibration Isolation Study, 73-B Configuration, 20 Sep 59

(When	Filled In)		
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PROJECT PROGRESS REPORT		17 Jul	23 Jul
1. REPORTING AGENCY	2. NAME OF CONTACT	05)///	3. TELEPHONE NO.
URSP-4		25X1A	37:3 51
4. PROGRAM TITLE			
\mathcal{I} -75 Engine Installation			

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i.	PROGRAM	6.		Т	ESTING	
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To determine performane of U-2A with J-75 Engine installed.

8. PRIORITY One)])	9. DATE PROGRAM INITIATED	10. DAT	E TESTING INITIATED	11, DATE OF ESTIMATED TEST COM- PLETION
12.	•	OPERATING	TIME	
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3 <i>h</i> 2	Grand total	of 1:40		52 Flights
358	hours:			36 Flights
351				14 Flights

13. COMMENTS

- Information thru 22 July previously submitted by message.
- 2. Flight 52 on airplane 342 for the purpose of obtaining speed power at low altude altitudos.
- 3. Flights 35 and 36 on airplane 350 for cruise performance. A high altitude ongine flamout was induced on flight 35 at the end of the mission. The pilot had retarded the trottle: to idle and was advancing it to check a new throttle stop. During this power acceleration the engine quit. This incident is not considered significant.
- 4. Flight 14 on airplane 351 for cruise performance. Operation was satisfactory.

Approved For ase 2001/09/05 (TA-RDP81B00880) 0100240002-5

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	LA	C					25X1A	
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Engine operation is satisfactory at this time.

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Engine operation is satisfactory at this time.

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13. COMMENTS

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FORM 1572

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(13-20)

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,			9 Oct. 59	15 Oct. 59								
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13. COMMENTS

An improvement was made in the engine oil system plumbing. This consisted of replumbing the oil boost pump to sense main oil inlet pressure. The change resulted in steady engine oil pressure under all ground and flight operating conditions. Tests were made on airplanes 342 and 352 and resulted in very satisfactory engine oil pressure.

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Estimate complete assembly available for test and pilot evaluation 30 Oct 59.

FORM 1572

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Approved For elease 2001/09/05 : CIA-RDP81 B008 R0001002400025

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13. COMMENTS													

AIRCRAFT 342:

A new development in the AC system test appears to have uncovered the real problem. The pump failure mentioned last week was experienced again this period. Vibration due to incompatibility of components in the system apparently has caused the pump failures, leaks and broken clips. Instrumentation is being installed and a quick solution is anticipated.

Granger box temperatures were measured with a heating unit installed. Box skin at the front stabilized at 50°C and box skin at the bottom aft stabilized at 105°C. The front temperature is comparable to that experienced on the J57 installation. The rear is much hotter. Heating unit on or off had very little effect on the high temperature. A means of cooling the bottom is being studied.





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13 COMMENTS				

AIRCRAFT #342:

Oscillograph records of AC system tests show rapid pressure fluctuations in the hydraulic system. These are caused by overspeeding the pump. With the pump turning 6000 RPM, cavitation is experienced above 65M. The present pump was purchased with the understanding that it could operate at 6000 RPM. A new pump capable of operating at 6000 RPM is being procured. Tests will be run immediately. If the new pump is satisfactory, 20 hours of operation will be obtained by Wednesday 7 October.

Structural modifications to the area around the Granger Box have been made. These modifications should improve the cooling air circulation around the box. A flight test of this configuration will be conducted Friday 2 October 1959.

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13. COMMENTS												

Aircraft #360:

Delivered to Detachment C.

Aircraft #342:

AC system oil temperatures now appear acceptable. A long flight was made to confirm this and a pump failed. The failure is now being studied.

The Granger Box cooling investigation was delayed due to a box not being available. A box and radome are now being installed.

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Approved For Releme 2001/09/05 CIA-RDP81B00880R0

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										· · · · · ·			
13. COMMENTS													

Aircraft #360:

Preparing for deployment.

Aircraft #342:

The AC system has been installed and instrumented. Additional oil cooler area over that tested on 360 has been provided. Flying is to be resumed Monday 14 Sept. 59.

, Granger box cooling provisions have been installed and will be tested next period.

Approved For Rease 2001/09/05 : CIA-RDP81B00880R000100240002-5 SECRET'

(When Filled In)

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FROJEC	I PRUGRESS KEP	OKI			FROM		THRU	
		- 1.1			21 Aug.	59	27 Aug.	59
1. REPORTING AGENCY			2. NAME OF CONTA	СТ		3	. TELEPHONE	NO.
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						- 1		
4. PROGRAM TITLE								
J75 Engine	Program			25X1	Α			
	0							
		STATUS O	F PROGRAM					
5. PROGRAM	6.		/: TE	STING		-		
PLANNING ACTIVE	PLANNING		ACTIVE	Sus	PENDED		CANCELLED	
7. OBJECTIVE OF TESTS			Short T	-		- 1	CANCELLED	-
8. PRIORITY 9. DATE PROG	RAM INITIATED	10. D	TE TESTING INITIA	TED	11. DATE	OF ES	TIMATED TES	T COM-
12.	· · · · · · · · · · · · · · · · · · ·	OPERATI	NG TIME	". ". ". "	<u> </u>			
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,	OR RUNS ROR		THIS PER			ן באוי	TO DATE	13
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13. COMMENTS		1						
14								

Aircraft #342:

Undergoing modifications and 100 hour aircraft inspection. Aircraft #360:

Assembly completed. First flight scheduled for 28 Aug. 59.

A.C. electrical system modified and ground tested. With the system loaded the frequency and voltage were 405 cpm and 120 volts. High altitude flight checks must be made to confirm this operation.

-	ROUTING	1
	CH/OPS	92
	DCH/OPS	
	CH/10	WYW
	CH/INTEL	
	PHOTO O.	
	CH/AIR S.	
	CH/COMMO	

342 Tot - 359 360 Cadhad 354 351

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1		PROJECT F	ROGRESS REPOR	RT.			FROM	THRU	
							7 Aug. 59	13 Aug.	59
1.	REPORTING AGENCY	TAG		2.	NAME OF CO	NTACT		3. TELEPHONE	NO.
		LAC							
4.	PROGRAM TITLE					<u> </u>			
	J75	Engine Progr	'am				25X1A		
			STA	ATUS OF P	ROGRAM		75,, 1		
5.	PROGR	RAM	6.			TESTING			
	PLANNING	ACTIVE	PLANNING		ACTIVE	9	SUSPENDED	CANCELLE)
8.	PRIORITY	9. DATE PROGRAM	INITIATED	10. DATE	TESTING IN	ITIATED	11. DATE OF PLETION	ESTIMATED TE	ST COM-
12	•			PERATING	TIME				
	TEST ARTICL	E	TOTAL TEST HOURS OR RUNS ROR			OR RUNS PERIOD	тота	AL HOURS OR RI	SNL
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Aircraft #360:

Aircraft assembly dependent upon engine return from inspection.

Aircraft modification work is being accomplished in the meantime.

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(When Filled In) PERIOO COVEREO PROJECT PROGRESS REPORT THRU 13 Aug. 59 7 Aug. 59 1. REPORTING AGENCY 2. NAME OF CONTACT 3. TELEPHONE NO. LAC 4. PROGRAM TITLE 25X1A J75 Engine Program STATUS OF PROGRAM PROGRAM TESTING . PLANNING ACTIVE PLANNING ACTIVE SUSPENDED CANCELLED 7. OBJECTIVE OF TESTS 8. PRIORITY 9. OATE PROGRAM INITIATEO 10. OATE TESTING INITIATEO 11. DATE OF ESTIMATED TEST COM-

OPERATING TIME

HOURS OR RUNS

THIS PERIOO

TOTAL TEST HOURS

OR RUNS ROR

13. COMMENTS
Aircraft #342:

TEST ARTICLE

12.

Airplane undergoing 100 hour inspection. Engine has been received. Estimate airplane in commission in approximately one week.

TOTAL HOURS OR RUNS

TO DATE

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(When Filled In)

						PER	RIOD COVERED
	PROJECT PR	ROGRESS REPOR	T			FROM	THRU
						7 Aug. 59	9 13 Aug. 59
1. REPORTING AGENCY				2. NAME OF CONTACT	•	0EV4A	3. TELEPHONE NO.
LAC						25X1A	:
4 BB44B44 E4E4	······································		l,				
4. PROGRAM TITLE							
J75 Et	ngine Progra	ım					
		STA	TUS OF	PROGRAM			
5. PROGRAM		6.	103 OF	TEST	r i n c		
PLANNING	ACTIVE	PLANNING		ACTIVE	F 1	PENDED	CANCELLED
7. OBJECTIVE OF TESTS	_I	1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		1	1 2031		1 JANUELLE
8. PRIORITY 9	. DATE PROGRAM	INITIATED	10. DAT	E TESTING INITIATI	E D	11. DATE OF PLETION	ESTIMATED TEST COM-
12.			PERATIN	TIME			
12.			T ERATIN				
TEST ARTICLE		FOTAL TEST HOURS OR RUNS ROR		HOURS OR R		TOTA	AL HOURS OR RUNS TO DATE
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Y							
13. COMMENTS							

Flights on #358:

25X1A #43 - 8 Aug. - 3:00.

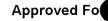
#44 - 8 Aug. - 1:27 - Night Flight.

#95 - 11 Aug. - 0:44. Aircraft & engine tests.

All tests accomplished to ready airplane for deployment.

25X1A #46 - 12 Aug. - 7:00 - Ferry to Plattsburgh.

This will be final report on this aircraft.



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					PER	IOD COVERED
	PROJECT	PROGRESS REPOR	T		7 Aug. 59	13 Aug. 59
1. REPORTING	AGENCY LAC		2. NAME OF C		Aug. J	3. TELEPHONE NO.
4. PROGRAM TI	ITLE					
	J75 Engine Ins	tallation			25X1A	
		STA	TUS OF PROGRAM			
5.	PROGRAM	6.		TESTING		
7. OBJECTIVE	ACTIVE	PLANNING	ACTIVE	SUSPE	NDED	CANCELLED
8. PRIORITY	9. DATE PROG	RAM INITIATED	10. DATE TESTING IN	ITIATED	11. DATE OF PLETION	ESTIMATED TEST COM-
12.		0	PERATING TIME			
TEST	ARTICLE	TOTAL TEST HOURS OR RUNS ROR		OR RUNS PERIOD	ATOT	L HOURS OR RUNS TO DATE
				,		
13. COMMENTS						
	Flights on #35	51:				
	#20 - 8 Aug -	- 2:0	05. Aircraft &	Engine tes	ste.	
25X1A	#21 - 9 Aug		1:31.	nu		
25X1A	#22 - 10 Aug.	- 4:	03.	t1 11		
	All tests aco	emphished to read	dy airplane for	deployment	·	
25X1A	#23 - 12 Aug.	- 7	7:00. Ferry to	Plattsburg	gh.	

This will be final report on this aircraft.

Approved For ease 2001/09/05cirCIA-RDP81B0088 00100240002-5

(When Filled In)

PROJECT PROGRESS REPORT						PERIOD COVERED			
						FROM ,	THRU		
	···					32 July 59 6 Aug.			
1. REPORTING AGENCY 2. NAME O					T	05744	3. TELEPHONE	NO.	
	LAC					25X1A			
. PROGRAM TITLE	Engine	Program							
***	-		TATUS OF F	ROGRAM					
5. PRO	GRAM	6.		TE:	STING				
PLANNING	ACTIVE	E PLANNING		ACTIVE	SUSP	ENDED	CANCELLE)	
. PRIORITY	9. DATE P	PROGRAM INITIATED	10. DATE	TESTING INITIA	TED	11, DATE OF			
2.						PLETIO	F ESTIMATED TE N	ST COM	
TEST ARTICLE			OPERATING	TIME				ST COM	
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TEST ARTIC	DLE		· · · · · · · · · · · · · · · · · · ·	HOURS OR		PLETIO	AL HOURS OR RE		

Flights on #342:

25X1A

#57 - 31 July -- 2:25. Defroster and descent data.

#58 - 4 August -- 2:26. Defroster and descent data.

The engine is due for inspection so flying has been terminated until the deployment of 351 and 358 is completed and an engine is available.

ease 2001/09/05 CIA-RDP81B0088 000100240002-5 **Approved For**

				PERIOD COVERED	
PROJECT I	PROJECT PROGRESS REPORT				
			31 Jul	y 59 6 Aug. 59	
1. REPORTING AGENCY		2. NAME OF CONTAC	т	3. TELEPHONE NO.	
LAC '					
4. PROGRAM TITLE		L			
J75 Engine Progra	am		25V4/		
			25X1A	1	
	STA	ATUS OF PROGRAM	×		
5. PROGRAM	6.	TES	TING		
PLANNING ACTIVE	PLANNING	ACTIVE	SUSPENDED	CANCELLED	
8. PRIORITY 9. DATE PROGRAM	1 INITIATED	10. DATE TESTING INITIAT		E OF ESTIMATED TEST COM-	
12.	(OPERATING TIME			
TEST ARTICLE	TOTAL TEST HOURS OR RUNS ROR	HOURS OR F This per		TOTAL HOURS OR RUNS TO DATE	
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25X1A

Flights on #358:

#41 - 6 August - - 1:30. A & E.

The airplane has been modified, a new engine installed and is being prepared for deployment.

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	PROJECT PROGRESS REPORT				FROM			THRU			
						31	July	59	6 A	ug.	59
I. REPORTING AGENCY IAC			2	. NAME OF CONTAC	СТ	25X	1A				NO.
. PROGRAM TITLE J75 Eng:	ine Inst	allation						, , ,			-
		ST	ATUS OF	PROGRAM							
PROGRAM		6.			STING	,					
PLANNING	ACTIVE	PLANNING	3 1	ACTIVE	SU	SPENDED		-1	CANCE	1150	
. PRIORITY 9. D	ATE PROGRA	M INITIATED	10. DATE	TESTING INITIA	TED	11. D	ATE OF LETION	ESTI	MATE	D TES	co
3. PRIORITY 9. D	ATE PROGRA		10. DATE		TED	11. D	ATE OF LETION	ESTI	MATE	D TES	CO
	ATE PROGRA				RUNS	11. D	LETION	L HO		R RUN	
2.		TOTAL TEST HOURS		TIME HOURS OR	RUNS	11. D	LETION	L HO	URS O	R RUN	

25X1A

Flights on #351:

#19 - 31 July - 2:42. Ferry Range.

Above flight was aborted due to high oil pressure and temperature in the early climb. This is the same engine that lost the oil last period. It is suspected that the oil loss caused some damage to the engine. The engine is being checked at PAC.

The airplane is currently undergoing pre-deployment modifications.

		PERIOD COVERED					
PROJECT PRO	GRESS REPORT			FROM		THRU	
				24 July	59	30 July 59	
. REPORTING AGENCY		2. NAME OF C	ONTACT		3.	TELEPHONE NO.	
LAC				25X1A			
. PROGRAM TITLE	· · · · · · · · · · · · · · · · · · ·						
J75 Engine Install	at io n						
	STATUS	OF PROGRAM				·	
PROGRAM 6	•		TESTING				
PLANNING ACTIVE	PLANNING	X ACTIVE	sus	PENDED		CANCELLED	
PRIORITY 9. DATE PROGRAM IN	ITIATED 10.	O. DATE TESTING INITIATED 11			11. DATE OF ESTIMATED TEST CO		
2.	OPERAT	ING TIME	···			**************************************	
IESI ARTICLE I	TAL TEST HOURS OR RUNS ROR	HOURS OR RUNS This period		TOTAL HOURS OR RU TO DATE			
All					405	:00 Hrs.	

Flights on airplane #342:

#58 - 24 July - Abort due to personal equipment trouble.

#59 - 24 July - Evaluation of cambered stabilizer.

#60 - 28 July - Engine installation cooling test.

#61 - 29 July - Engine blowout check, performance descent.

Further evaluation of cambered stabilizer showed definite improvement of high Mach characteristics. This will be installed as a mod.

No blowouts have been experienced on this engine with the 15th stage bleed valves open during full power climb from 40 to 60,000 feet. The engine had previously had several while installed in airplane #351.

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			PE	ERIOD COVERED
PROJECT	PROGRESS REPORT		FROM	THRU
			24 July 5	69 30 July 59
1. REPORTING AGENCY		2. NAME OF CONTACT		3. TELEPHONE NO.
7.40			25X1A	
LAC 4. PROGRAM TITLE				
	-12-11			
J75 Engine Inst	allation			
	STAT	US OF PROGRAM		
5. PROGRAM	6.	TEST	ING	
PLANNING ACTIVE	PLANNING	ACTIVE	SUSPENDED	CANCELLED
7. OBJECTIVE OF TESTS	 			ONNOCECCE
8. PRIORITY 9. DATE PROGRA	M INITIATED 1	O. DATE TESTING INITIATE	D 11. DATE OF	F ESTIMATED TEST COM.
			PLETIO	
12.	OPE	ERATING TIME		· · · · · · · · · · · · · · · · · · ·
TEST ARTICLE	TOTAL TEST HOURS	HOURS OR RU	NS TOT	'AL HOURS OR RUNS
	OR RUNS ROR	THIS PERID	D	TO DATE
		TIME TO SERVICE THE SERVICE TH		
351				102:28 Hrs
13. CDMMENTS				
Flights on Airp	lane #351;			

25X1A 25X1A

#15 - 24 July -- 8:00 Range at full power #16 - 28 July -- 1:45 Airplane & engine #27 - 29 July -1:32 Airplane & engine #18 - 30 July -5:53 Range with slippers

After flight 15 the airplane was inspected and engine #610452 installed. Flight 16 was terminated early due to loss of oil pressure. Cause of the trouble was a cracked teflon and braid engine oil line. This had been obtained from a new vendor. Replacement parts are being procured from the old vendor. The engine was checked by P&W personnel and did not show any apparent damager

A range flight was attempted on flight 18. Fuel control and autopilot trouble caused the flight to be aborted. The fuel control is one previously removed for erratic control and had been reworked. The autopilot problem was cuased by an experimental pitch servo unit.



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		PERIOO COVERED				
PRO	DJECT PROGRESS REPO	RT	FROM	THRU		
			24 J	uly 59 30 July 59		
1. REPORTING AGENCY		2. NAME OF CONTAC	25X1A	3. TELEPHONE NO.		
LAC			20/(1/			
4. PROGRAM TITLE			· · ·			
J75 Engine	Installation					
	ST	ATUS OF PROGRAM	1000)			
5. PROGRAM	6.	TES	TING			
PLANNING ACTI	IVE PLANNING	→ der) ve	SUSPENDED	CANCELLED		
8. PRIORITY 9. DATE	PROGRAM INITIATED	10. DATE TESTING INITIAT		ATE OF ESTIMATED TEST COM- LETION		
8. PRIORITY 9. DATE		10. DATE TESTING INITIAT				
		OPERATING TIME	UNS			
12.	TOTAL TEST HOURS	OPERATING TIME HOURS OR R	UNS	TOTAL HOURS OR RUNS		
12.	TOTAL TEST HOURS	OPERATING TIME HOURS OR R	UNS	TOTAL HOURS OR RUNS		
12.	TOTAL TEST HOURS	OPERATING TIME HOURS OR R	UNS	TOTAL HOURS OR RUNS		

Flights on airplane #358:

#37 - 24 July - 7:05 - Max. power performance.

#38 - 27 July - 2:25 - B Camera - LAC mounts.

#39 - 28 July - 2:40 - B Camera - Hycon mounts.

#40 - 29 July - 5:27 - B Camera - Hycon mounts.

Ground vibration tests of the B camera with two new types of isolation mounts were conducted. These were followed by flight tests of each. Preliminary results look very encouraging. The airplane is now out of commission for modification and inspection prior to deployment.



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PROJECT	PROGRESS REPOR	₹ T .	F	ROM	THRU
				l May	7 Hay
1. REPORTING AGENCY		2. NAME OF CONTACT	····		3. TELEPHONE NO.
URSP-4			2	25X1A	33141
4. PROGRAM TITLE					
Dual Oxygen	Regulator Seat	t Pack			
	ST/	ATUS OF PROGRAM			
5. PROGRAM	6.	TEST	ING .		
PLANNING X ACTIVE	PLANNING	X ACTIVE	SUSPEN	DED	CANCELLED
7. OBJECTIVE OF TESTS					
8. PRIORITY 9. DATE PROGRA	M INITIATED	10. DATE TESTING INITIATE	D 1	1. DATE OF	F ESTIMATED TEST COM- N 25 May 59
12.	(OPERATING TIME			
TEST ARTICLE	TOTAL TEST HOURS OR RUNS ROR	HOURS OR RU This Perio		тот	TAL HOURS OR RUNS TO DATE
13. COMMENTS					

Maiting for return of the assembly from LAC, installed in a seat pack.